

SEQUENCE LISTING

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Qiu, Gang  
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<120> CANCER CELL VACCINE

<130> U.S. Application 09/205,995, (CIP)

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<150> 08/661,627

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<160> 79

<170> PatentIn Ver. 2.0

<210> 1

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<220>

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oligonucleotide corresponding to a specific region  
of the Ii gene.

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ctcggtacct actgg

15

<210> 2

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<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 2

atccatggct ctagcctc

18

<210> 3  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 3  
tctagcctct agtttttc

18

<210> 4  
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<210> 5  
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<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 5  
catgttatcc atggacat

18

<210> 6  
<211> 18  
<212> DNA  
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<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 6  
catggacatt ggacgcat

18

<210> 7  
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<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 7

tggacgcatc agcaaggg

18

<210> 8

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 8

cagcaagggga gtagccat

18

<210> 9

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 9

agtagccatc cgcattctg

18

<210> 10

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 10

ccgcatctgg ctacacagg

18

<210> 11  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 11  
gctcacaggt ttggcaga

18

<210> 12  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 12  
tttggcagat ttcggaag

18

<210> 13  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 13  
tttcggaagc ttcattgag

18

<210> 14  
<211> 18  
<212> DNA  
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<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 14  
cttcatgcga aggctctc 18

<210> 15  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 15  
aaggctctcc agttgcag 18

<210> 16  
<211> 18  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 16  
cagttgcagg ttctggga 18

<210> 17  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 17  
gttctgggag gtgatggt 18

<210> 18  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 18

ggtgatgggc agcttgtc

18

<210> 19

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
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of the mouse Ii gene.

<400> 19

cagcttgctc aggcggcc

18

<210> 20

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
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of the mouse Ii gene.

<400> 20

taggcggccc tggtgctg

18

<210> 21

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 21

ctgttgctgg tacaggaa

18

<210> 22

Sequence

<211> 18  
<212> DNA  
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<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 22  
gtacaggaag taagcagt

18

<210> 23  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 23  
gtaagcagtg gtggcctg

18

<210> 24  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 24  
ggtggcctgc ccagccaa

18

<210> 25  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 25  
cccagccaag agcagagc 18

<210> 26  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 26  
gagcagagcc accaggac 18

<210> 27  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 27  
caccaggaca gagacacc 18

<210> 28  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 28  
agagacaccg gtgtacag 18

<210> 29  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>



<400> 29

18

<211> 18

<213> Artificial Sequence

<400> 30

18

<211> 18

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: antisense oligonucleotide corresponding to a specific region of the mouse Ii gene.

gctgcacctt tctggctc

18

<210> 32

<211> 18

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: antisense oligonucleotide corresponding to a specific region of the mouse Ii gene.

ttctggctct ctagggcg

18

<210> 33

<211> 18

<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 33  
tctagggcgg ttgcccag

18

<210> 34  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 34  
gttgcccagt atgggcaa

18

<210> 35  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 35  
tatgggcaac tgttcatg

18

<210> 36  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 36

ctgttcatgg ttagagat

18

<210> 37

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 37

gtttagagatg aggtcgcg

18

<210> 38

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 38

gaggtcgcgt tggtcatc

18

<210> 39

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 39

gcgttgggtca tccatggc

18

<210> 40

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense

oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 40

ttggatcatcc atggctct

18

<210> 41

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 41

gtcatccatg gctctagc

18

<210> 42

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 42

cacaggcgct gctgctgc

18

<210> 43

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 43

atccatggct ctagccct

18

<210> 44

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 44

tctagcccta gtttttcc

18

<210> 45

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 45

agtttttccc acaggcgc

18

<210> 46

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 46

atggatgacc aacgcgac

18

<210> 47

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 47

ctagtttttc ccacaggc

18

Sequence

<210> 48  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 48  
ctgctgctgt tgctgctg 18

<210> 49  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 49  
gtcgcgttg tcatccat 18

<210> 50  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 50  
tcgcgttggt catccatg 18

<210> 51  
<211> 18  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region

of the mouse Ii gene.

<400> 51

cgcggttggtc atccatgg

18

<210> 52

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 52

cgttggtcat ccatggct

18

<210> 53

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 53

gttggtcatc catggctc

18

<210> 54

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 54

tggtcatcca tggctcta

18

<210> 55

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 55

ggatcatccat ggctctag

18

<210> 56

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 56

cacggctgca cctttctg

18

<210> 57

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 57

cggctgcacc tttctggc

18

<210> 58

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 58

tgcacctttc tggctctc

18



<210> 59  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 59  
cacctttctg gctctcta

18

<210> 60  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 60  
acctttctgg ctctctag

18

<210> 61  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 61  
ctttctggct ctctaggg

18

<210> 62  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 62

ctggctctct agggcggt

18

<210> 63

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 63

ggctctctag ggcggttg

18

<210> 64

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense  
oligonucleotide corresponding to a specific region  
of the mouse Ii gene.

<400> 64

gacaagcttg gctgagca

18

<210> 65

<400> 65

000

<210> 66

<400> 66

000

<210> 67

<400> 67

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<210> 68

<211> 103

<212> DNA

<213> Artificial Sequence

<220>

<400> 68

<210> 69

<211> 91

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene construct corresponding to a specific region of the mouse Ii gene.

<400> 69

<210> 70

<211> 134

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene construct corresponding to a specific region of the mouse Ii gene.

<400> 70

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acctgtgagc cagatgcgga tggctactcc cttgctgatg cgtccaatgt ccatggataa 60
catgctcctt gggcctgtga agaacgttac caagtacggc aacatgaccc aggaccatgt 120
gatgcacctg ctca                                     134
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<210> 71

<211> 145

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: Reverse gene construct corresponding to a specific region of the mouse Ii gene.

<400> 71

aagaacgtta ccaagtacgg caacatgacc caggaccatg tgatgcatct gctcacgagg 60  
tctggacccc tggagtaccc gcagctgaag gggaccttcc cagagaatct gaagcatctt 120  
aagaactcca tggatggcgt gaact 145

<210> 72

<211> 169

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 72

gggtcccaga cacacagcag cagcagcagc agcagcagca gcaacagcag cagcagcagc 60  
agcgcctgtg ggaaaaacta gaggctagag ccatggatga ccaacgcgac ctcatctcta 120  
accatgaaca gttgcccata ctgggcaacc gccctagaga gccagaaag 169

<210> 73

<211> 160

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 73

ccatggatga ccaacgcgac ctcatctcta accatgaaca gttgcccata ctgggcaacc 60  
gccctagaga gccagaaagg tatgtgtgaa taccagcaga gagcccttac ctctggagga 120  
cacagaatgc aggctgggg agggacacag agctctgttg 160

<210> 74

<211> 237

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 74

gtgcagccgt ggagctctgt acaccggtgt ctctgtcctg gtggctctgc tcttggtggtg 60  
gcaggccacc actgcttact tctgtacca gcaacagggc cgcctagaca agctgaccat 120  
cacctcccag aacctgcaac tggagagcct tcgcatgaag cttccgaaat gtgcgtgctc 180

cacctgtccc tcacctcaca gacatcattt ctccatttag cccctcccga tctgcct 237

<210> 75

<211> 107

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 75

gggtcccaga cacacagcag cagcagcagc agcagcagca gcaacagcag cagcagcagc 60  
agcgcctgtg ggaaaaacta gaggctagag ccatggatga ccaacgc 107

<210> 76

<211> 104

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 76

tccgtcccaa cagatactgg gcaacgcgcc tagagagcca gaaaggtgca gccgtggagc 60  
tctgtacacc ggtgtctctg tcttggtggc tctgctcttg gctg 104

<210> 77

<211> 190

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 77

gggtcccaga cacacagcag cagcagcagc agcagcagca gcaacagcag cagcagcagc 60  
agcgcctgtg ggaaaaacta gaggctagag ccatggatga ccaacgcgac ctcatctcta 120  
accatgaaca gttgcccata ctgggcaacc gccctagaga gccagaaagg tgcagccgtg 180  
gagctctgta 190

<210> 78

<211> 148

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 78

aacagcagca gcagcagcag cgctgtggg aaaaactaga ggctagagcc atggatgacc 60  
aacgcgacct catctctaac catgaacagt tgcccatact gggcaaccgc cctagagagc 120  
cagaaagggtg cagccgtgga gctctgta 148

<210> 79

<211> 124

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse gene  
construct corresponding to a specific region of  
the mouse Ii gene.

<400> 79

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aacagttgcc catactgggc aaccgccta gagagccaga aagggtgcagc cgtggagctc 120  
tgta 124